# TELEPHONE BUOY

iderwater Signal Apparatus Was Perfected During War in "Sub" Search.

the ballast tanks of the U. S. thes, where she lay on a sandy

dh 800 feet below the surface of Idetan, American naval experts delificately cast about to devise abntay certa n means by which a pairred vessel, unable to blow out tanks and rise, could signal her deltion.

success on that occasion has mitted in saving the lives of the ew of the hure S-5 in the most dra-atic story the sea has told in many

them was dependent upon other rrade vessels being equipped with hat 14 known in the navy as under-Aignalling devices. The other only on "navy luck"-the of some other ship in the icinity of the distressed submarine. The S-5 trusted to "navy luck" and

The device by which the location of ie sunken submarine was discovered rting a large bronze bell with four happers which, swung by the pents of the buoy in the sea, the gong, giving out a sound

Scores of these buoys, almost exotly similar in construction, are anhored in New York harbor and pasengers on Coney Island houts pass half al dozen in the lower bay. On thourd the latest type sub-

market these steel buoys are sunk n wells in the decks of the submersibies, michored there by a hawser that based through the deck of the vesse and I did to a winch below. Along this hawser is wound a water-proof cleciric wire, used for telephoning.

As in the case with the usual anored harbor bell buoys, these subso that at all times the buoy is directly over the sunken "sub." This is done so that the buoy cannot float off at a distance and thus fail to mark the exact location of the vessel.

Once the commander of a submarine slesovers that he cannot rise.

through failure of his tanks, his en-gines of his horizontal rudders, or fine the releases the buoy by a de-vice hi his control station. The great wice hi his control station. steelitank rises at once to the surface of the sea and there stops, the auto-matic device holding it taut at al

The instant the "position marker uoy' reaches the surface of the sea berigs its ceaseless roll over the swift water, its bell never stopping

of distress, by night, in addition to the bell, ere is a light eignailing device, both being and acetylene. Should the orage batteries of the "sub" continue working order—they can be retarged only when the vessel is on a surface of the sea, where her asoline engines can run in free air—a decire is mabe electric signalling device is ma-ipulated at night by the imprisoned ubmarine crew, since it can be flashed" on and off, and a "flashing" ight is far more likely to be dis-overed by the lookout on a surface essel than a steady light.

Should the electric batteries be run down the acetylene light is worked, the action of the water on

worked, the action of the water on the saids giving out the gas which spontaneously ignites and gives out a steady glow for hours.

In a water-tight compartment on top of the buoy, bearing directions in svery-danguage, is a telephone con-nected with the submarine by means of the electric cable that runs along the mooring hawser. A small boat, anchored alongside the submarine, can easily lift this telephone from its compartment and communicate freely and easily with the crew of the submersible, no matter how deeply the vessel has sunk.

## **34** IN SUBMARINE

(Continued Prom First Page.)

is forward brought him word of theibell and light buoy out of place of dusk yesterday evening, he made for the sound and light and sent an officer and a man in a small

As the bont pulled alcorride the Big steel can the officer heard the bugger and then he read the markings which showed the thing was a submarine buoy. He got into the frame on the first and followed the directions for getting at the telephone Hardly had be lifted the receiver and the buzzer ceased its sourt when

the makkage came from below: "Time is the automarine 1 -6. have been submerged for thirty-five

boat as fast as her men could send smoke out of New York, Philadel- prison. her over the rolling sea, bending to phia and Delaware Breakwater, the care with all the strength that The skipper of the Goethals did not expected things of life on the waters. pretty much what was needed.

The Chief Engineer jumped down below with his assistants and began getting out steel cables and clearing away about the winches. The Captain took the message himself to the wireless room up back of his own cabin on the hurricane deck.

Coast Guard Submarine F-4
to function off Honolulu HarMarch, 1915, and the twentymemissioned officers and enmen of her crew were suffermen of her crew we

miles from an Atlantic beach, who helplessness made the job as delicate first caught the plea. David L. Moore, an amateur, usually amuses himself after dinner by listening to what is being said through the air within a thousand miles.

Almost the first words which he and of a line. Hardly had it showed

damage is such that we cannot rise later and within half an hour de-by our own power. Send for help," stroyers were streaking over the Back to the Papama liner went the night with a trail of sparks and

was in them. The chief engineer and wait for them. He dropped hooks on they could finish the work in time to the captain were at the side; they his steel cables down until he knew have the breath-starved thirty-four had already guessed, out of heir he had touched the body of the subknowledge of the strange and un- marine and then worked them until hey caught and held. One of his assimiants went into the buoy to keep up the spirit of the thirty-four men be-ow in heir half suffocation by tell ing them just what was being done, and take their advice as to the best way of handling the cables and where hey could find the best hold.

GRIP.

ABLES FINALLY GET A STRONG

as tinkering with a lady's watch it spite of the clumsiness of the ma-

The air hose was thrust into the hole, but for a time the people on the Goethals were not confident have the breath-starved thirty-four A second message was sent out with a request that everybody who caught it get it to the Navy Department by my means possible: "Four officers and thirty men

have been revived considerably by air pumped through small hole in side of 8-5. Mon from Goethals working cutting hull. Chance of relieving crow before arrival of destroyers due midnight, doubtful."

But the "chief" and his staff were

working under the direction of the im-prisoned officers, better than the knew. The Alianthus came up as-offered a relief crew to hurry the work. Before they were needed, a offered a relief crew to hurry the work. Before they were needed, a hole big enough to pass a man's body had been drilled and chiselled out and the grinning, though lined and weary face of the first sailer appeared.

Every one of the thirty-four—Lieut, Commander Cooke following naval traditions by being the last to leave the ship—had the atrength to get out by his own efforts, though several cok-

by his own efforts, though several col-lapsed from weakitess when they were once in the small boats.

All thirty-four were transferred to

being said through the air within a both of the water has both out of the water has been out to be send of a line. Hardly had it showed within an hour or two and the crip within an hour or two and the end of a line. Hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line. Hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed within an hour or two and the end of a line hardly had it showed withit and had line had line had line had line had line had line h



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